34.2

UNITED STATES DEPARTMENT OF AGRICULTURE

BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE

FOREST INSECT INVESTIGATIONS

MATSUCOCCUS INFESTATION STUDIES

STUDY PLOT DATA

by
H. L. McKenzie
Prescott, Arizona
May 1938

U. S. GOVERNMENT PRINTING OFFICE 60018

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

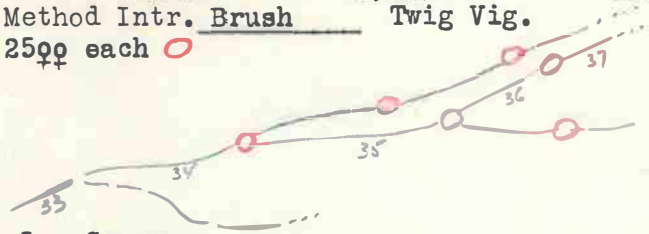
PRESCOTT NATIONAL FOREST

AREA Wolf Creek

Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
5/4/38	Dom ____ CoD ____ Int ____ Sup ____ X √ Rep ____	Full	4.9	13	None	

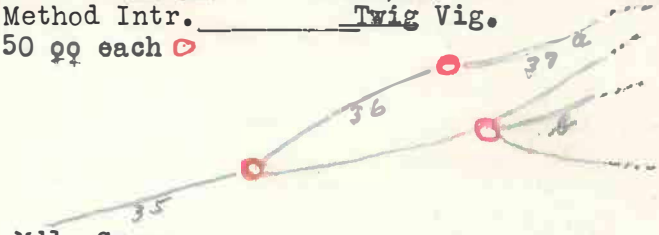
Twig Infestation Record

Twig No. 1 Date Inf. 4/29/37 Scale Coll. L.C.
Method Intr. Brush Twig Vig.
25 ♀♀ each



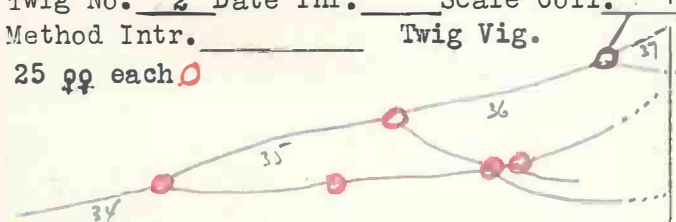
Lw. Crown
Notes:

Twig No. 4 Date Inf. 5/3/37 Scale Coll. L.C.
Method Intr. Twig Vig.
50 ♀♀ each



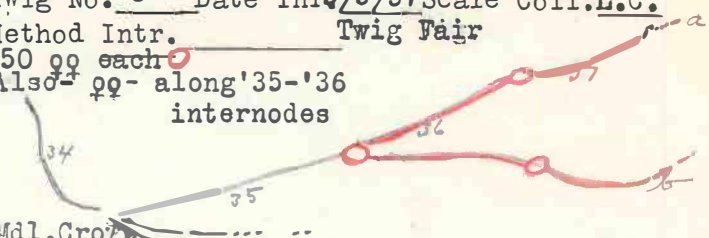
Mdl. Crown
Notes: 4/6/38 a & b questionable

Twig No. 2 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Vig.
25 ♀♀ each



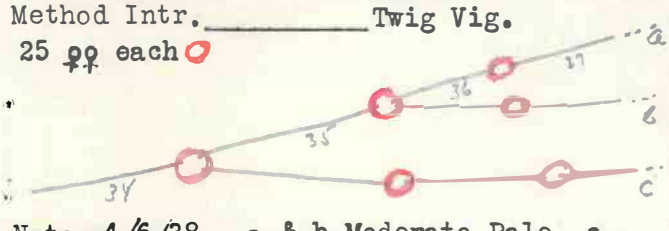
Mdl. Crown
Notes:

Twig No. 5 Date Inf. 5/3/37 Scale Coll. L.C.
Method Intr. ____ Twig Fair
50 ♀♀ each
Also- ♀♀- along '35-'36 internodes



Mdl. Crown
Notes: 4/6/38- a -flagged '35 node out
b -mod. pale
4/25/38-b -flagged out

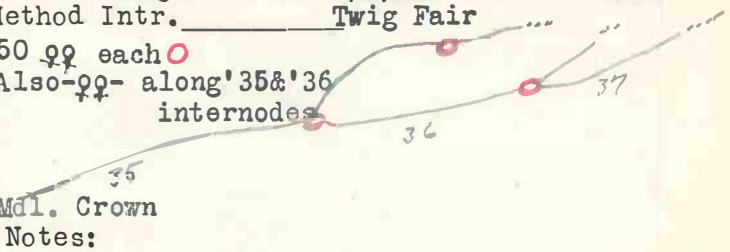
Twig No. 3 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Vig.
25 ♀♀ each



Notes: 4/6/38 - a & b Moderate Pale, c- normal.

Twig cut for histological studies full lesion observed.

Twig No. 6 Date Inf. 5/3/38 Scale Coll. L.C.
Method Intr. ____ Twig Fair
50 ♀♀ each
Also- ♀♀- along '35 & '36 internodes

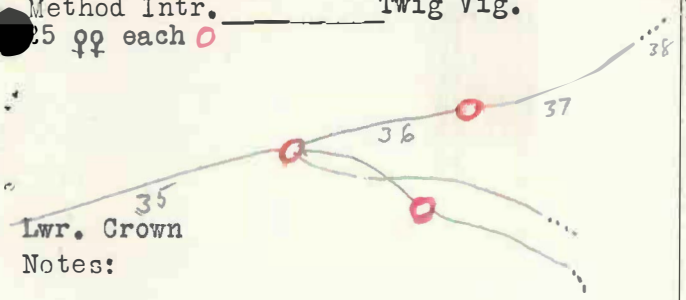


Mdl. Crown
Notes:

Plot No. 1 Tree No. A

Twig Infestation Record

Twig No. 7 Date Inf.____Scale Col.___
Method Intr.____Twig Vig.
25 ♀♀ each O

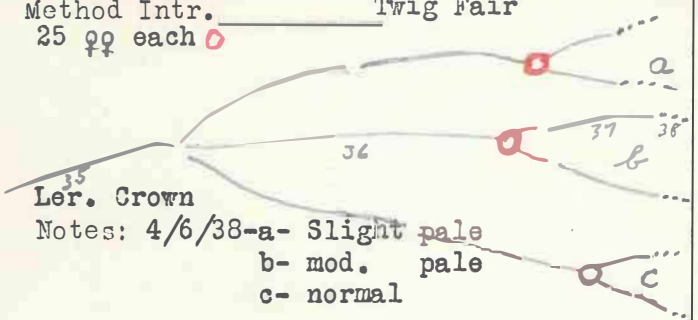


Lwr. Crown
Notes:

Twig No.____Date Inf.____Scale Coll.____
Method Intr.____

Notes:

Twig No. 8 Date Inf.____Scale Col.____
Method Intr.____Twig Fair
25 ♀♀ each O

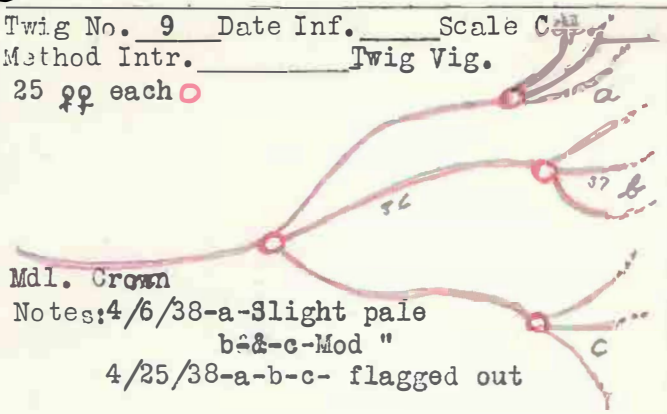


Ler. Crown
Notes: 4/6/38-a- Slight pale
b- mod. pale
c- normal

Twig No.____Date Inf.____Scale Col.____
Method Intr.____

Notes:

Twig No. 9 Date Inf.____Scale Col.
Method Intr.____Twig Vig.
25 ♀♀ each O

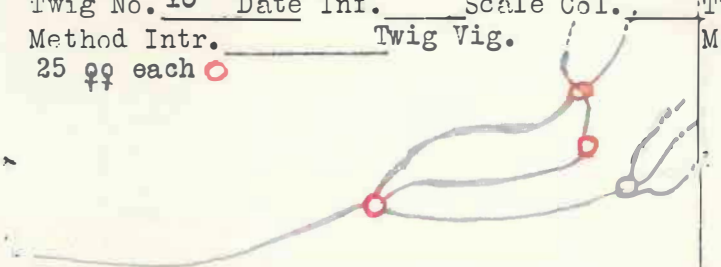


Mdl. Crown
Notes: 4/6/38-a-Slight pale
b & c-Mod "
4/25/38-a-b-c- flagged out

Twig No.____Date Inf.____Scale Col.____
Method Intr.____

Notes:

Twig No. 10 Date Inf.____Scale Col.
Method Intr.____Twig Vig.
25 ♀♀ each O



Mdl. Crown
Notes: 4/6/38-a-b-c-questionable

4/25/38 " " " "

Twig No.____Date Inf.____Scale Col.____
Method Intr.____

Notes:

Plot No. 1 Tree No. A

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

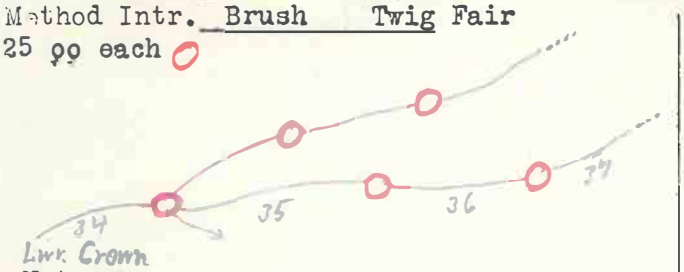
PRESCOTT NATIONAL FOREST

AREA Wolf Creek

Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
5/4/38	Dom____ CoD____ Int____ Sup____ X ✓ Rep____	Full	4.2	13		Chlorsis

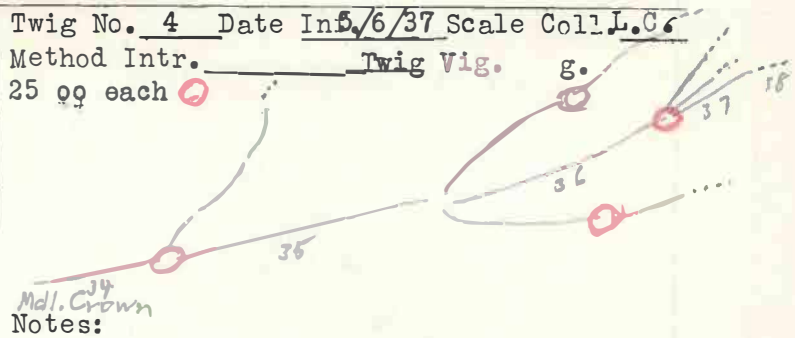
Twig Infestation Record

Twig No. 1 Date Inf. 5/6/37 Scale Coll. L.C.
Method Intr. Brush Twig Fair
25 ♀♀ each



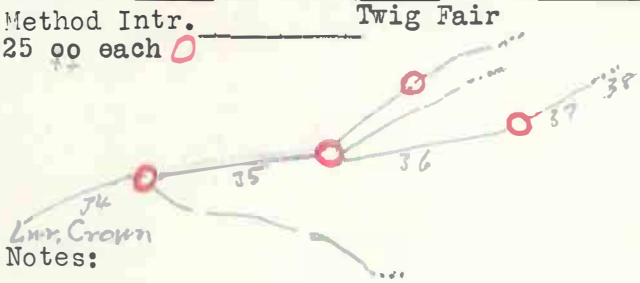
Notes:

Twig No. 4 Date Inf. 5/6/37 Scale Coll. L.C.
Method Intr. Twig Vig.
25 ♀♀ each



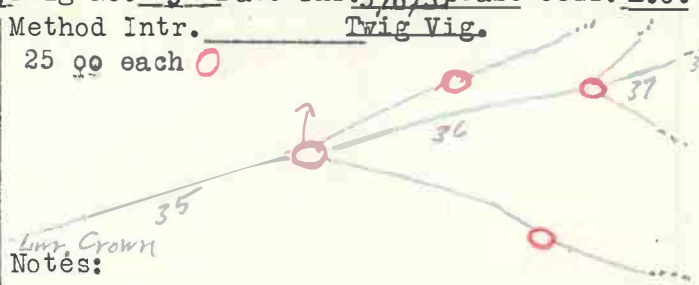
Notes:

Twig No. 2 Date Inf. 5/6/37 Scale Coll. L.C.
Method Intr. Twig Fair
25 ♀♀ each



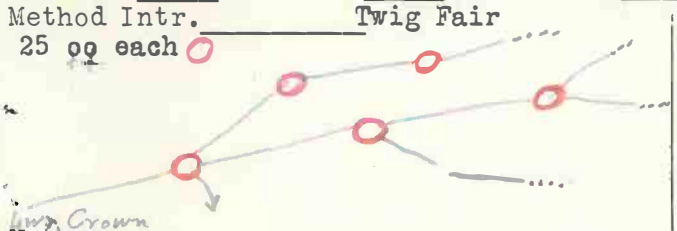
Notes:

Twig No. 5 Date Inf. 5/6/37 Scale Coll. L.C.
Method Intr. Twig Vig.
25 ♀♀ each



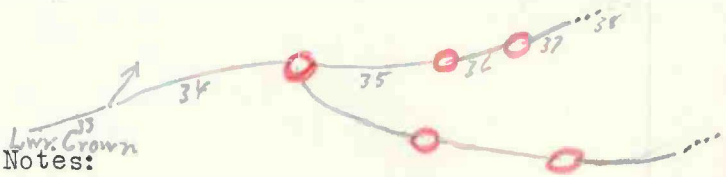
Notes:

Twig No. 3 Date Inf. 5/6/37 Scale Coll. L.C.
Method Intr. Twig Fair
25 ♀♀ each



Notes:

Twig No. 6 Date Inf. 5/6/37 Scale Coll. L.C.
Method Intr. Twig Fair
25 ♀♀ each

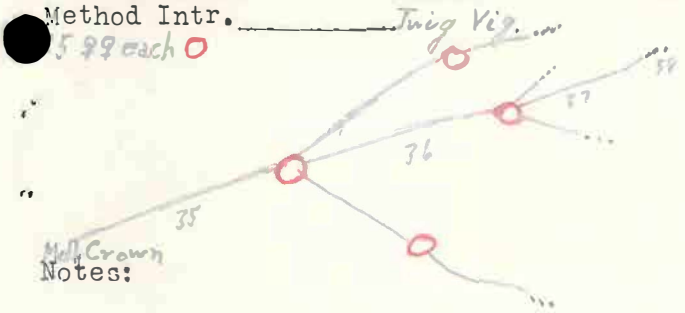


Notes:

Plot No. 1 Tree No. B

Twig Infestation Record

Twig No. 7 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Vig.
5 ♀♀ each ○

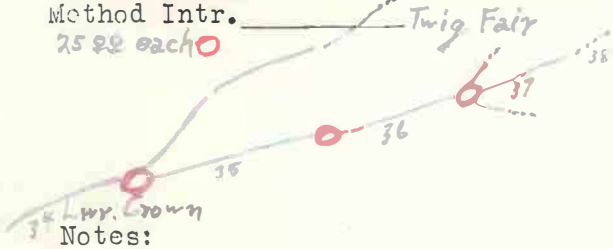


Notes:

Twig No. ____ Date Inf. ____ Scale Coll. ____
Method Intr. ____

Notes:

Twig No. 8 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Fair
25 ♀♀ each ○

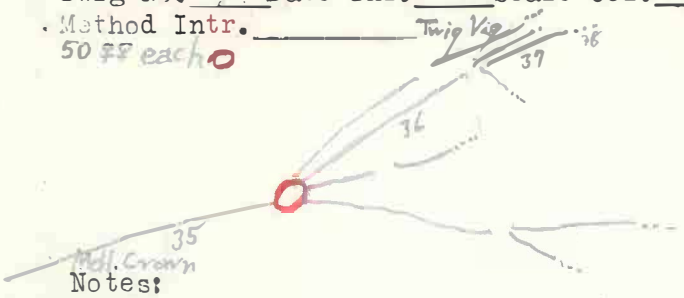


Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 9 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Vig.
50 ♀♀ each ○

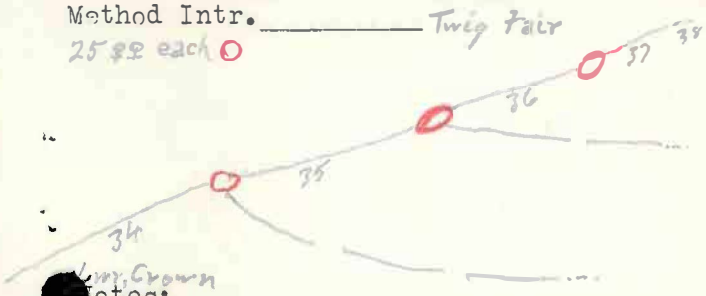


Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 10 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Fair
25 ♀♀ each ○



Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Plot No. 1 Tree No. B

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

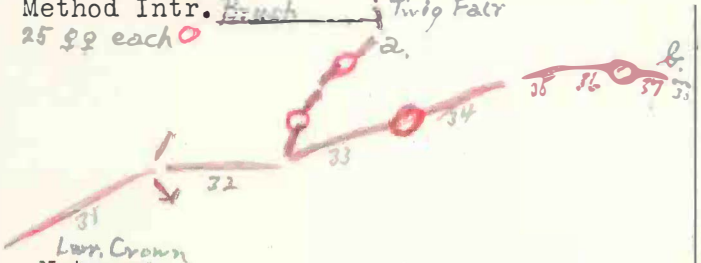
PRESCOTT NATIONAL FOREST

AREA Wolf Creek

Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
5/4/38	Dom ____ CoD ____ Int ____ Sup ____ X ✓ Rep ____	Full	3.8	14	None	

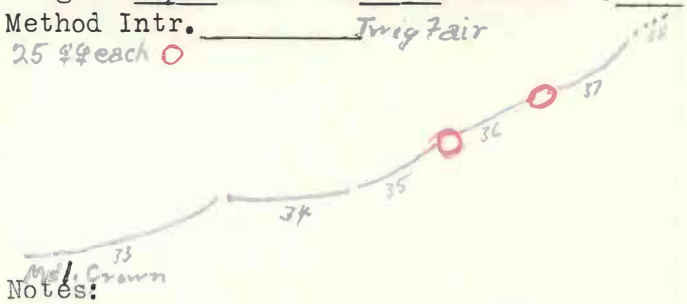
Twig Infestation Record

Twig No. 1 Date Inf. 5-4-38 Scale Coll. ____
Method Intr. Branch Twig Fair
25 ♀♀ each ○



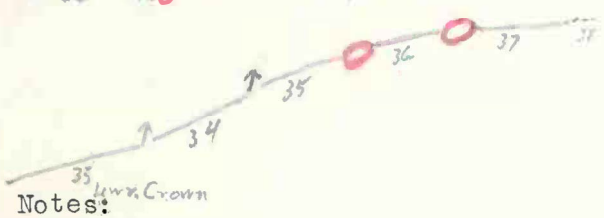
Notes: 4-6-38 = a. - Slight pale,
b. - Mod. "
4-25-38 - a + b - flagged
5-6-38 - Lwr. Sprs. "

Twig No. 4 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair
25 ♀♀ each ○



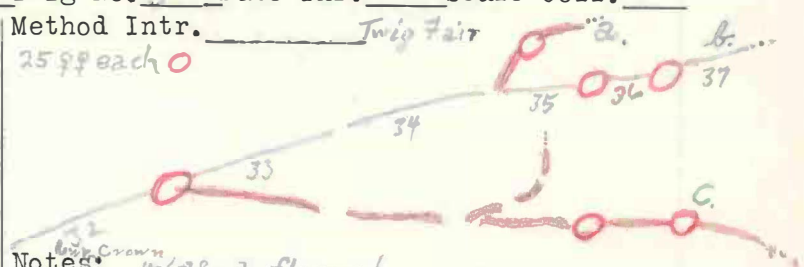
Notes:

Twig No. 2 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair
50 ♀♀ each ○



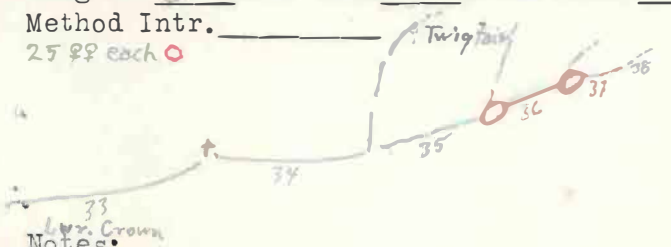
Notes:

Twig No. 5 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair
25 ♀♀ each ○



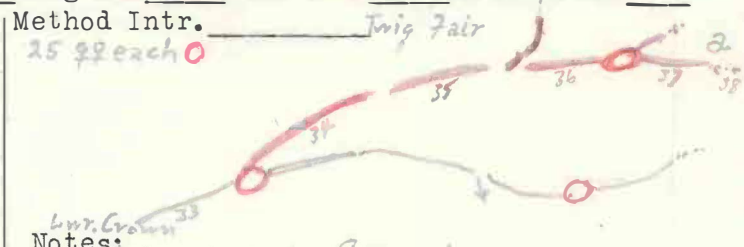
Notes: 4-6-38 - a - flagged
b - Slight Pale
c - Mod. Pale
4-25-38 C - flagged
a-b - Same
5-6-38 b. - Mod. Pale

Twig No. 3 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair
25 ♀♀ each ○



Notes:

Twig No. 6 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair
25 ♀♀ each ○

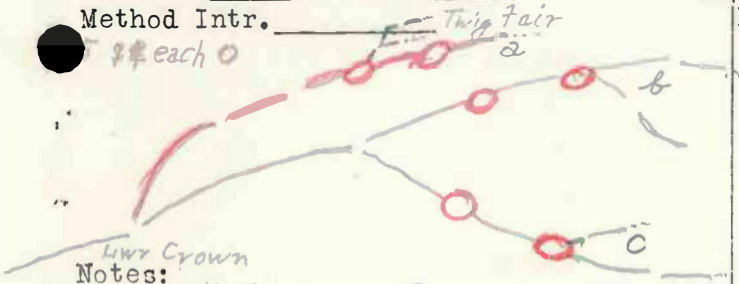


Notes: 4-25-38 - a - flagged.

Plot No. 1 Tree No. C

Twig Infestation Record

Twig No. 7 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Fair
25 ♀♀ each ♂



Notes: 4-6-38-a-flagged.

Twig No. ____ Date Inf. ____ Scale Coll. ____
Method Intr. ____

Notes:

Twig No. 8 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Fair
25 ♀♀ each ♂

Notes: 4-25-38-a-flagged.
b-questionable
5-6-38 b-flagged.

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

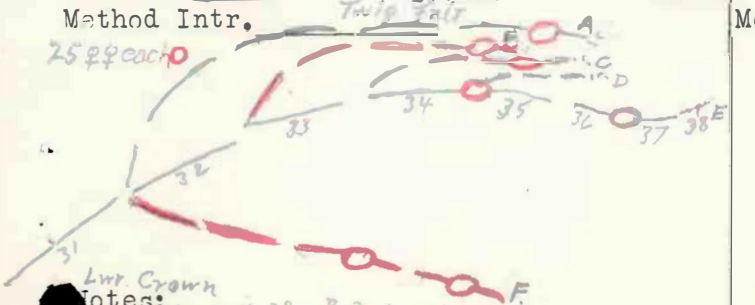
Twig No. 9 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Fair
25 ♀♀ each ♂

Notes: 4-6-38-All flagged.

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 10 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Fair
25 ♀♀ each ♂



Notes: 4-25-38-B-Md. pale
f flagged
5-6-38-b flagged

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Plot No. 1 Tree No. C

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

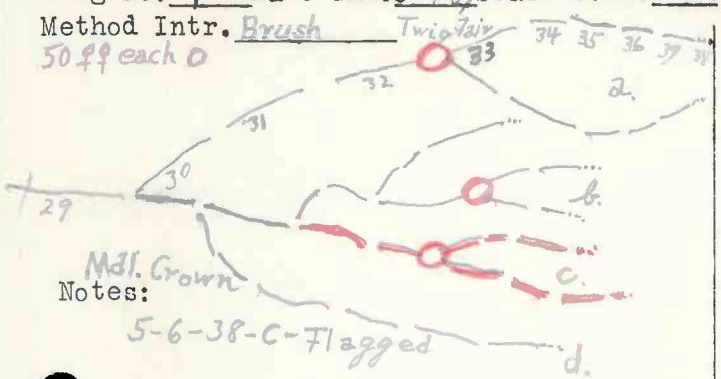
PRESCOTT NATIONAL FOREST

AREA Wolf Creek

Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
5/4/38	Dom____ CoD____ Int____ Sup____ X____ Rep____	Thin	1.6	10	None	

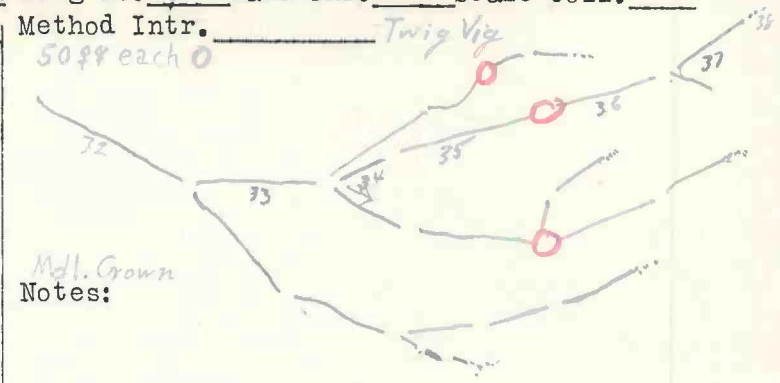
Twig Infestation Record

Twig No. 1 Date Inf. 5-14-38 Scale Coll. 4C
Method Intr. Brush
50 ♀♀ each ○



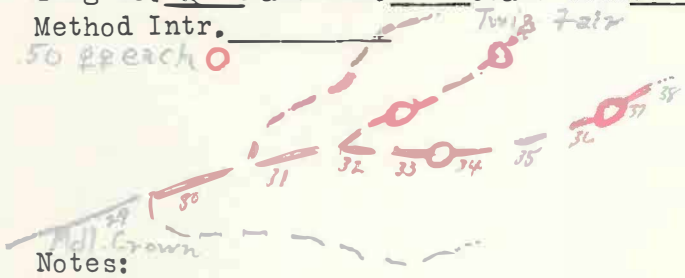
Notes:
5-6-38-C-Flagged

Twig No. 4 Date Inf. ____ Scale Coll. ____
Method Intr. _____
50 ♀♀ each ○



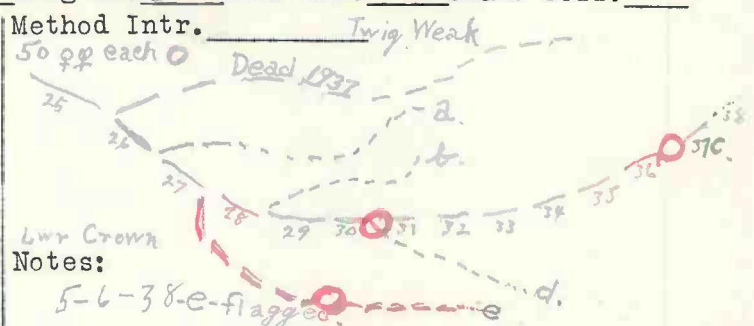
Notes:

Twig No. 2 Date Inf. ____ Scale Coll. ____
Method Intr. _____
50 ♀♀ each ○



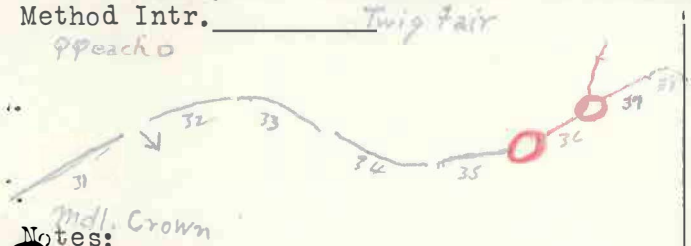
Notes:
4-L-38-a-Mod. pale - b. normal
4-26-38-All flagged except a.

Twig No. 5 Date Inf. ____ Scale Coll. ____
Method Intr. _____ Twig Weak
50 ♀♀ each ○



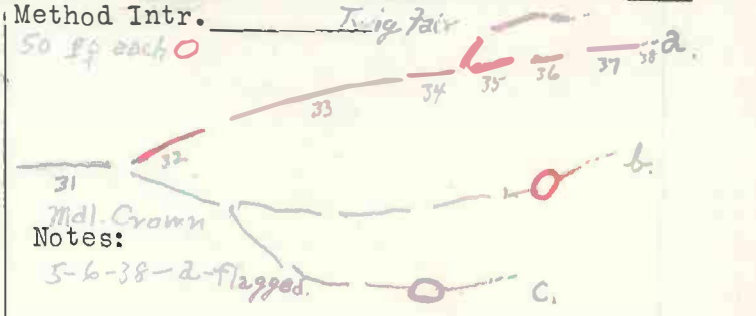
Notes:
5-6-38-e-flagged

Twig No. 3 Date Inf. ____ Scale Coll. ____
Method Intr. _____ Twig Fair
♀♀ each ○



Notes:

Twig No. 6 Date Inf. ____ Scale Coll. ____
Method Intr. _____ Twig Fair
50 ♀♀ each ○



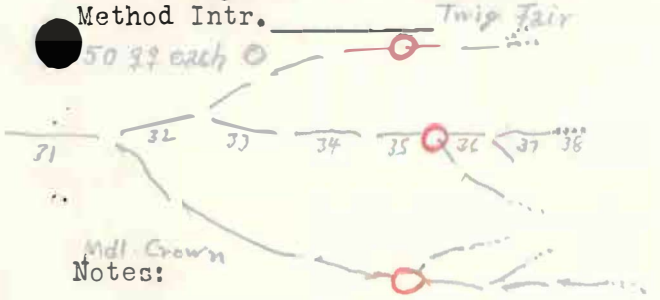
Notes:
5-6-38-a-flagged.

Plot No. 1

Tree No. 2

Twig Infestation Record

Twig No. 7 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Fair
50 ♀♀ each ♂

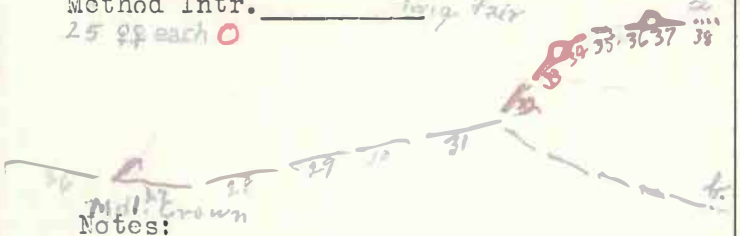


Notes:

Twig No. ____ Date Inf. ____ Scale Coll. ____
Method Intr. ____

Notes:

Twig No. 8 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Fair
25 ♀♀ each ♂



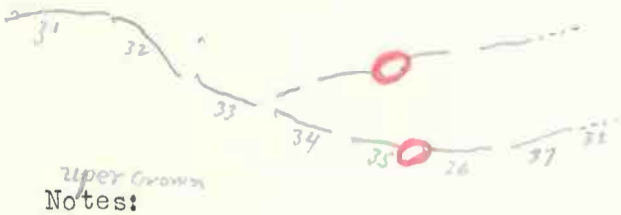
Notes:

4-6-38 - a-flagged (also Spx.)

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 9 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Fair
50 ♀♀ each ♂

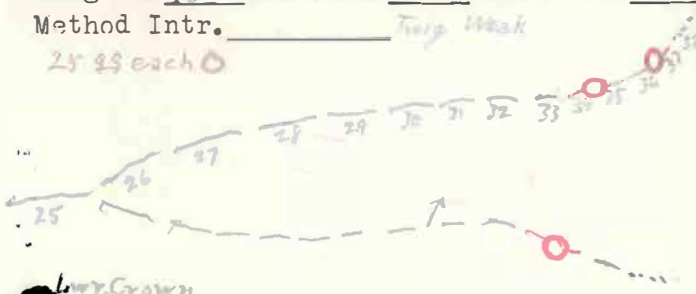


Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 10 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Weak
25 ♀♀ each ♂



Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Plot No. 1 Tree No. D

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

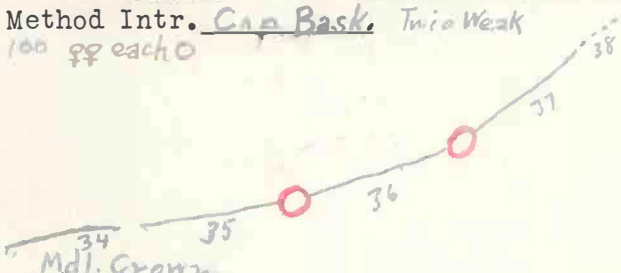
PRESCOTT NATIONAL FOREST

AREA Wolf Creek

Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
5/4/38	Dom____ CoD____ Int____ Sup____ X____ Rep____	Thin	2.1	12	Tip Moth	

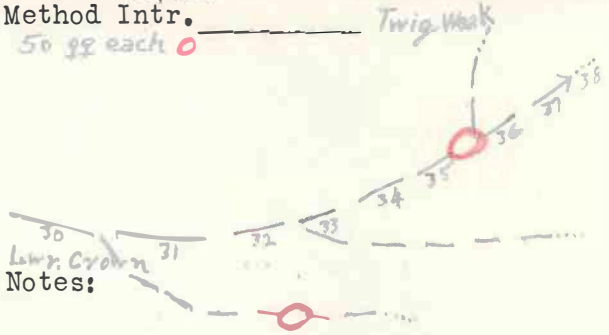
Twig Infestation Record

Twig No. 1 Date Inf.____ Scale Coll. L.C.
Method Intr. Cap Bask. Twig Weak
100 ♀♀ each ○



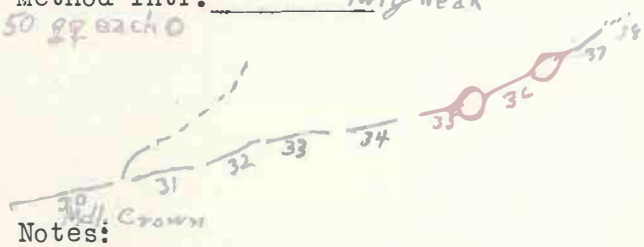
Notes:

Twig No. 4 Date Inf.____ Scale Coll.____
Method Intr._____ Twig Weak
50 ♀♀ each ○



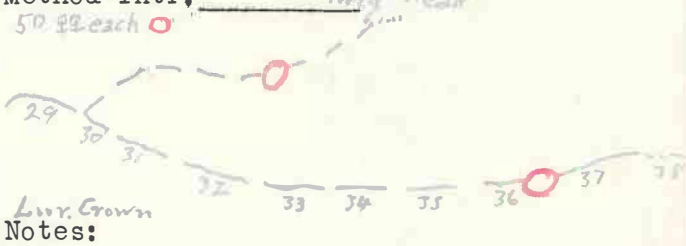
Notes:

Twig No. 2 Date Inf.____ Scale Coll.____
Method Intr._____ Twig Weak
50 ♀♀ each ○



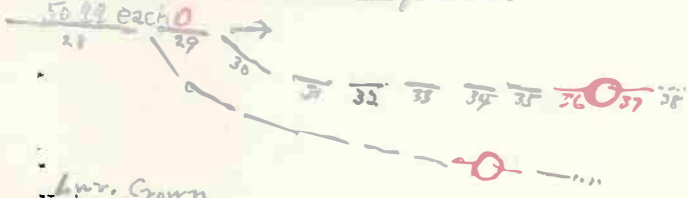
Notes:

Twig No. 5 Date Inf.____ Scale Coll.____
Method Intr._____ Twig Weak
50 ♀♀ each ○



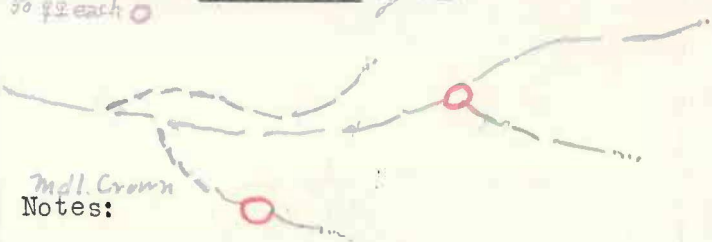
Notes:

Twig No. 3 Date Inf.____ Scale Coll.____
Method Intr._____ Twig Weak
50 ♀♀ each ○



Notes:

Twig No. 6 Date Inf.____ Scale Coll.____
Method Intr._____ Twig Fair
30 ♀♀ each ○

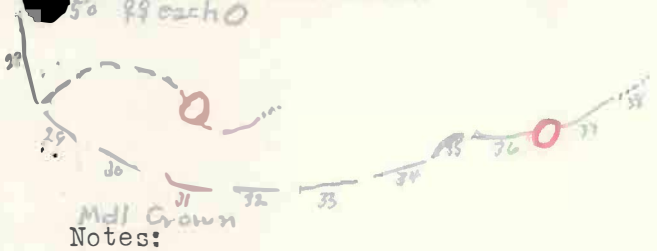


Notes:

Plot No. 1 Tree No. 5

Twig Infestation Record

Twig No. 7 Date Inf. ____ Scale Col. ____
Method Intr. ____
50 ♀♀ each O

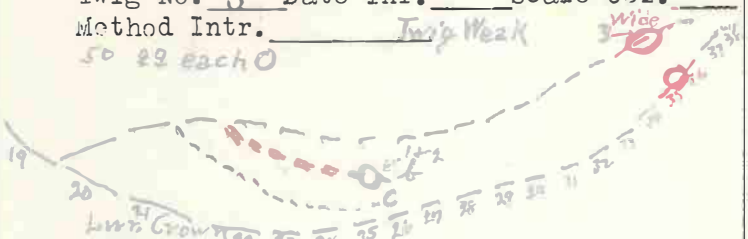


Notes:

Twig No. ____ Date Inf. ____ Scale Coll. ____
Method Intr. ____

Notes:

Twig No. 8 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Weak
50 ♀♀ each O



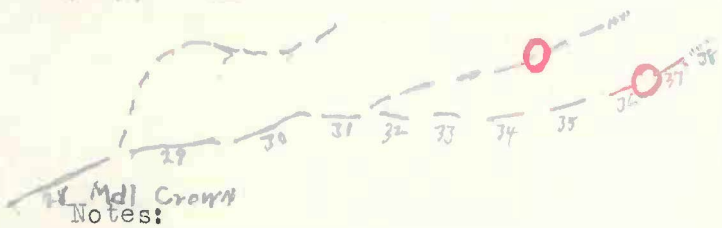
Notes:

5-6-38-b.-Flagged.

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 9 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Weak
50 ♀♀ each O



Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 10 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Weak
50 ♀♀ each O

Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Plot No. 1 Tree No. E

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

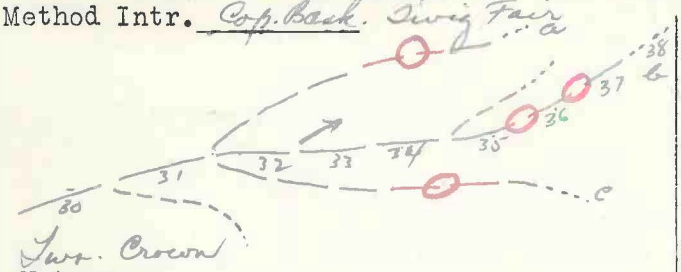
PRESCOTT NATIONAL FOREST

AREA Wolf Creek

Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
5/4/38	Dom____ CoD____ Int____ Sup____ X √ Rep____	Full	5.8	19	None	

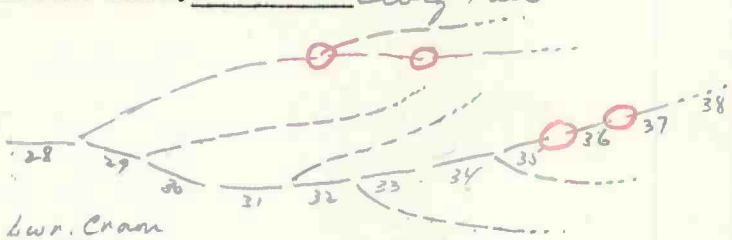
Twig Infestation Record

Twig No. 1 Date Inf. 5-19-38 Scale Coll. L.C.
Method Intr. Cop. Back. Twig Pair



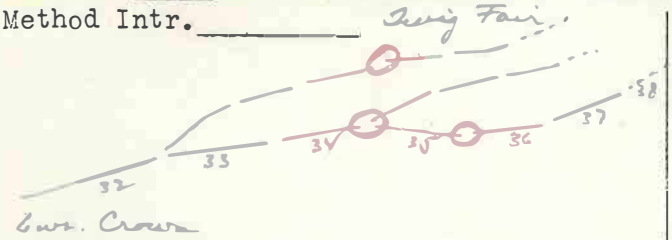
Notes:

Twig No. 4 Date Inf. ____ Scale Coll. ____
Method Intr. _____ Twig Pair



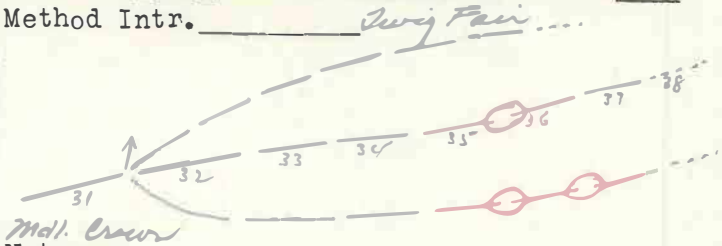
Notes:

Twig No. 2 Date Inf. ____ Scale Coll. ____
Method Intr. _____ Twig Pair



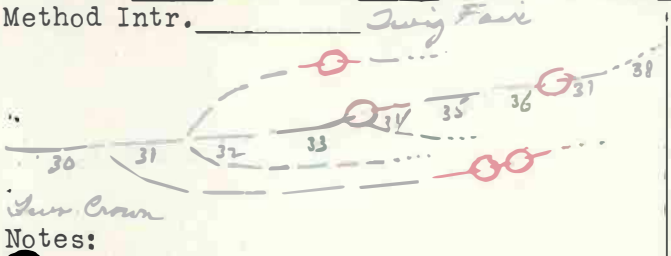
Notes:

Twig No. 5 Date Inf. ____ Scale Coll. ____
Method Intr. _____ Twig Pair



Notes:

Twig No. 3 Date Inf. ____ Scale Coll. ____
Method Intr. _____ Twig Pair



Notes:

Twig No. 6 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Pair

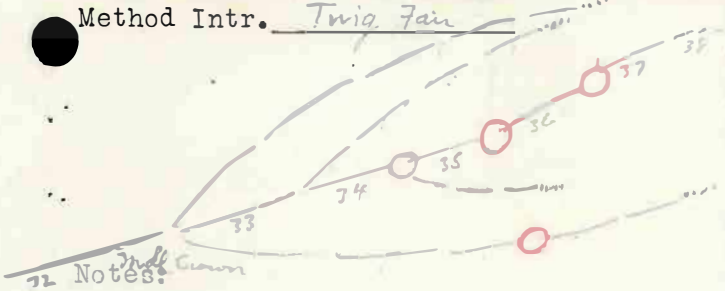
Notes:

Plot No. 1

Tree No. F

Twig Infestation Record

Twig No. 7 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair

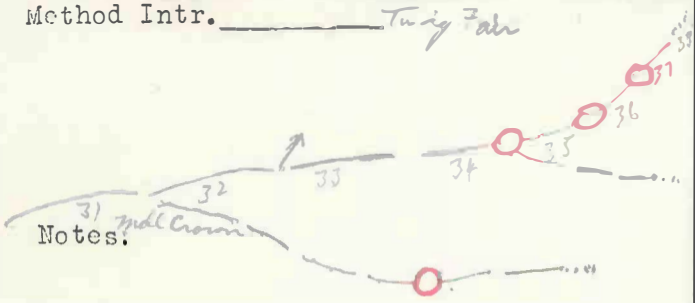


Notes:

Twig No. ____ Date Inf. ____ Scale Coll. ____
Method Intr. ____

Notes:

Twig No. 8 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair



Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

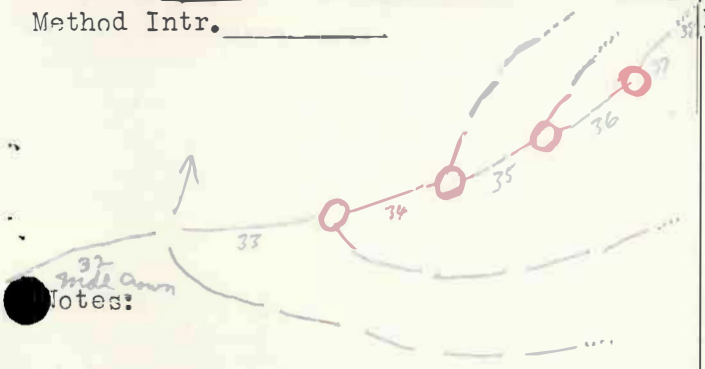
Twig No. 9 Date Inf. ____ Scale Col. ____
Method Intr. Twig Weak

Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 10 Date Inf. ____ Scale Col. ____
Method Intr. ____



Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Plot No. 1

Tree No. F

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

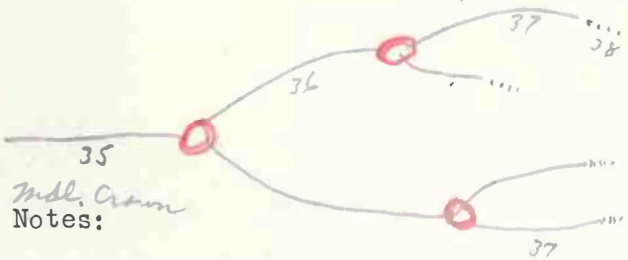
PRESCOTT NATIONAL FOREST

AREA Wolf Creek

Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
5/4/38	Dom____ CoD____ Int____ Sup____ X ✓ Rep____	Full	1.8	9	None	

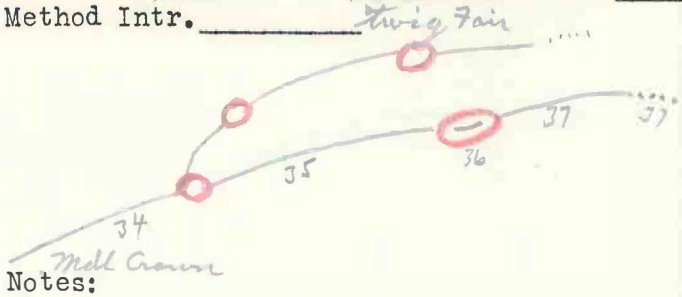
Twig Infestation Record

Twig No. 1 Date Inf. 5-1-38 Scale Coll. LC
Method Intr. Cap Bask. Twig Vig.



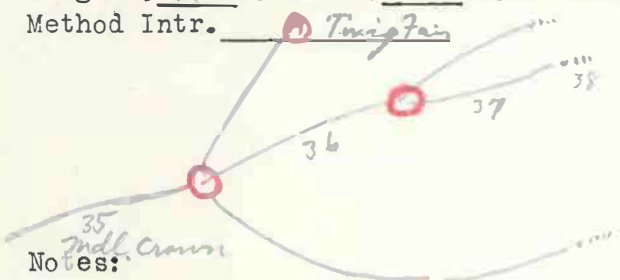
Mdl. Crown
Notes:

Twig No. 4 Date Inf. ____ Scale Coll. ____
Method Intr. _____ Twig Vig.



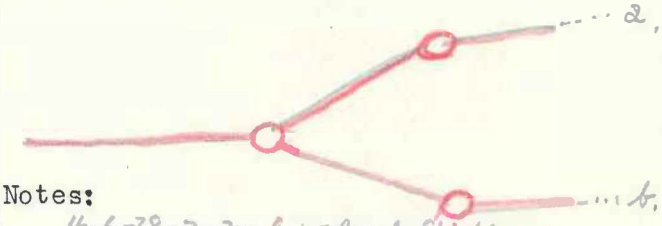
Mdl Crown
Notes:

Twig No. 2 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Vig.



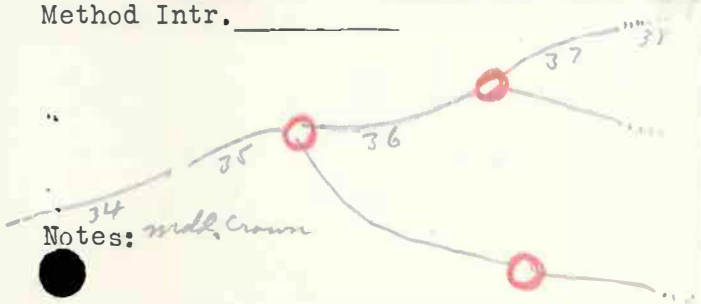
Mdl. Crown
Notes:

Twig No. 5 Date Inf. ____ Scale Coll. ____
Method Intr. _____



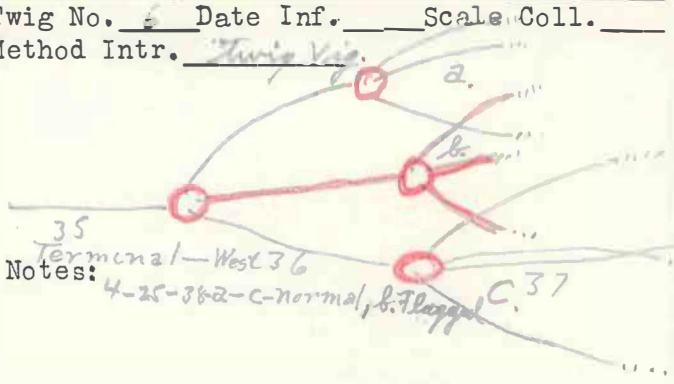
Notes:
4-6-38-a-mod pale; b. Slight pale
4-25-38-Collected for Histological Work; Full lesion Present

Twig No. 3 Date Inf. ____ Scale Coll. ____
Method Intr. _____



Notes: mdl. Crown

Twig No. 6 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Vig.



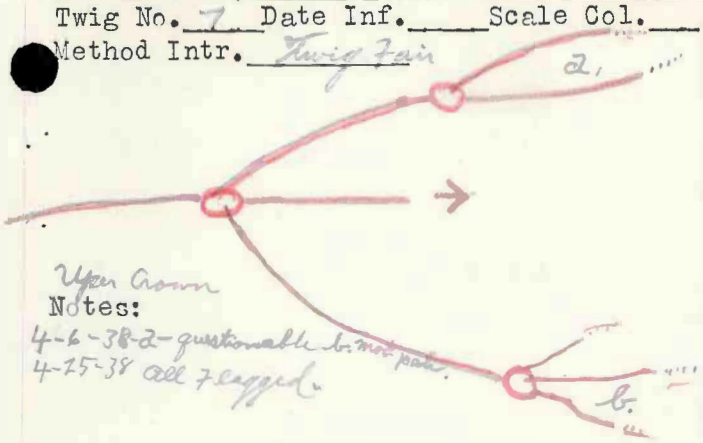
Terminal—West 36
Notes: 4-25-38-a-c-Normal, b. Flagged

Plot No. 1

Tree No. 6

Twig Infestation Record

Twig No. 7 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair

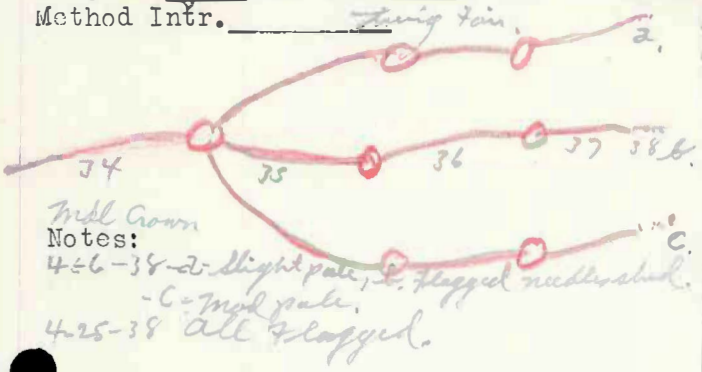


Upper Crown
Notes:
4-6-38-2-questionable b. not plain.
4-25-38 all flagged.

Twig No. ____ Date Inf. ____ Scale Coll. ____
Method Intr. ____

Notes:

Twig No. 8 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair

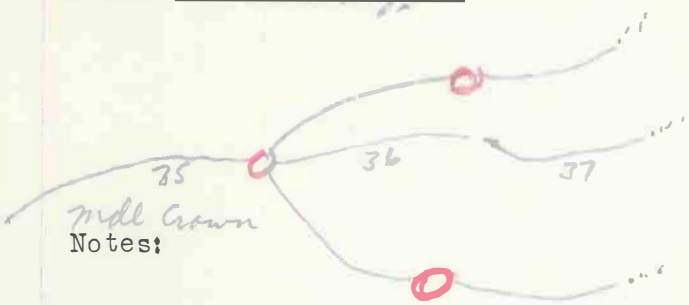


Mdl Crown
Notes:
4-6-38-a-slight pale, b. flagged needle abd.
-c-mod pale.
4-25-38 all flagged.

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 9 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair

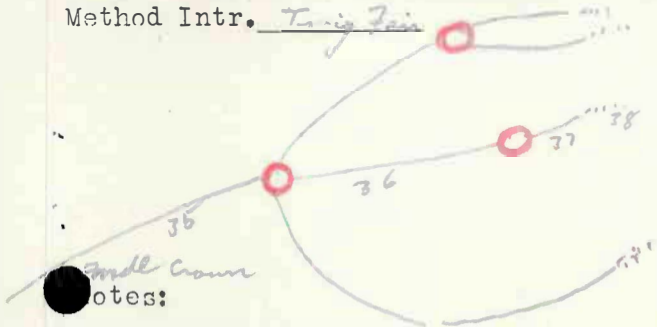


Mdl Crown
Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 12 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair



Mdl Crown
Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Plot No. 1 Tree No. 2

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

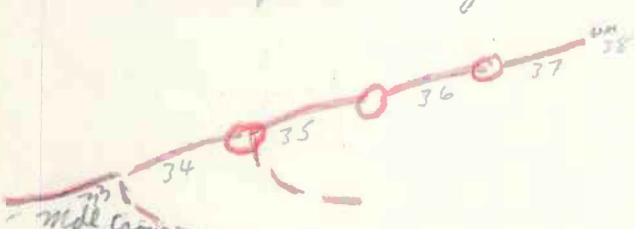
PRESCOTT NATIONAL FOREST

AREA Wall Creek

Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
5/4/38	Dom ____ CoD ____ Int ✓ Sup ____ X ____ Rep ____	Full	2.5	11	None	

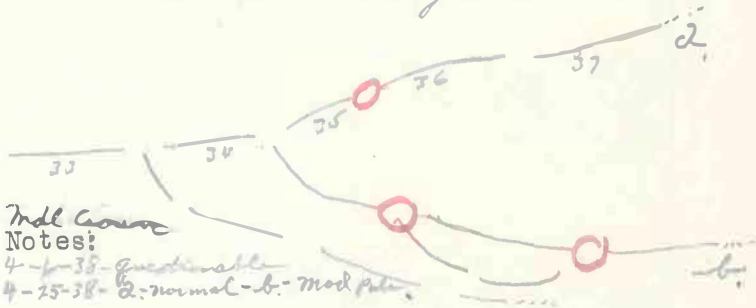
Twig Infestation Record

Twig No. 1 Date Inf. 5/20/37 Scale Coll. L.C.
Method Intr. Cop Prick Twig Fair



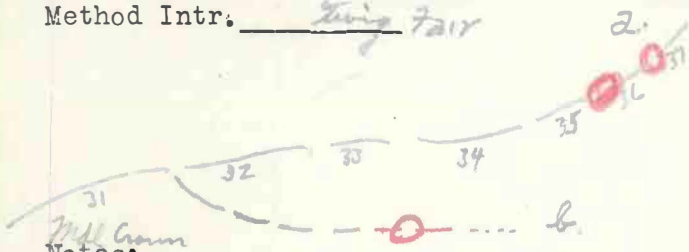
Notes:
4-6-38 - Mod Pale
4-25-38 Flagged.

Twig No. 4 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair



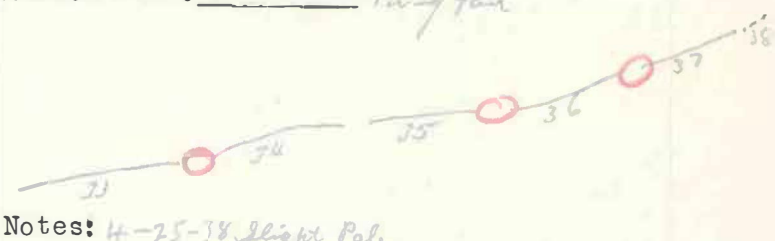
Notes:
4-6-38 - Questionable
4-25-38 - a - normal - b - Mod Pale.

Twig No. 2 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair



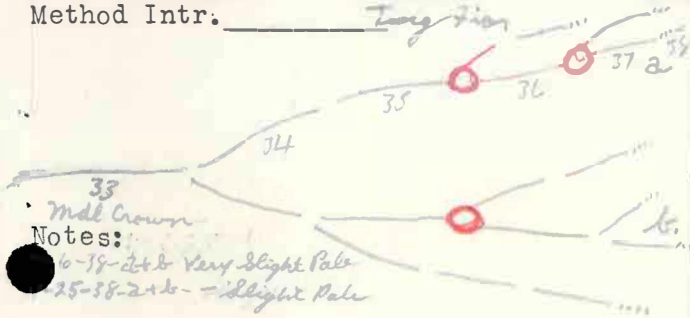
Notes: 4-6-38 - a+b Slight Pale, 37 Growth
5-6-38 - b - mod Pale.

Twig No. 5 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair



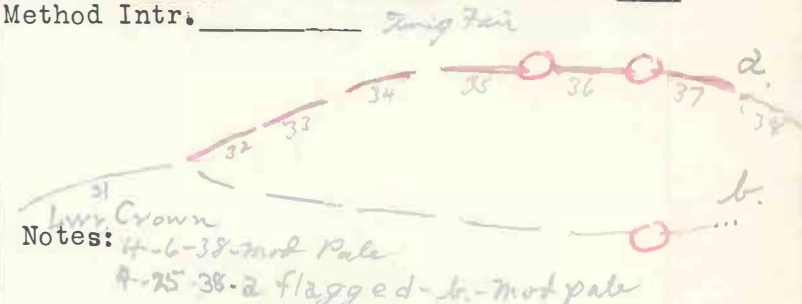
Notes: 4-25-38 Slight Pale

Twig No. 3 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair



Notes:
6-38-a+b Very Slight Pale
25-38-a+b - Slight Pale

Twig No. 6 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair



Notes: 4-6-38 - Mod Pale
4-25-38 - a flagged - b - Mod pale

Plot No. 1

Tree No. H

Twig Infestation Record

Twig No. 7 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Pair

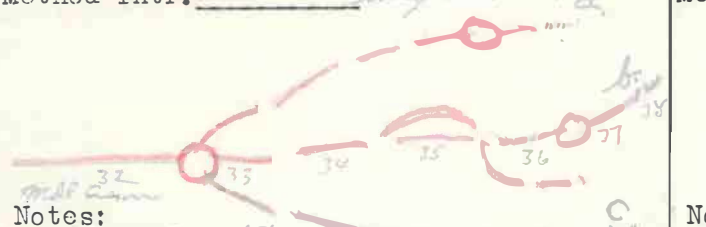
Cut For Investigation for benefit of Messrs Nowe & Daghtery - 7.5.

Notes: 4-6-38 - mod Pair
4-25-38 Flagged

Twig No. ____ Date Inf. ____ Scale Coll. ____
Method Intr. ____

Notes:

Twig No. 8 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Pair



Notes:
4-6-38-a-Flagged Tip; b-Flagged Tip; c-questionable
4-25-38 Same
5-6-38 all Flagged.

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

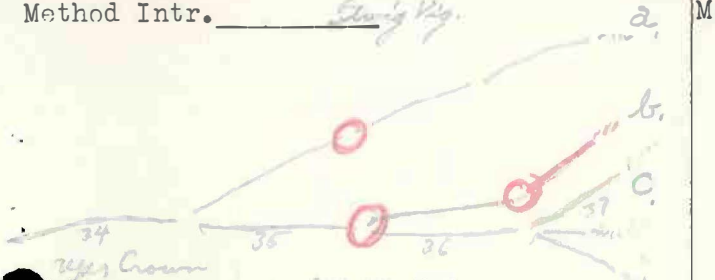
Twig No. 9 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Pair

Notes: 4-6-38 - Questionable
4-25-38 mod pale

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 10 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Pair



Notes: 4-6-38 - b. Slight Pale
4-25-38 b. Flagged 37 Growth

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Plot No. 1

Tree No. H

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

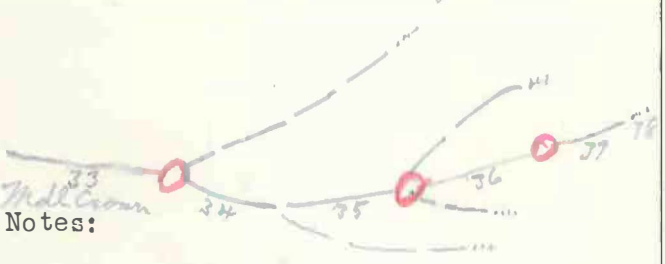
PRESCOTT NATIONAL FOREST

AREA Wolf Creek

Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
	Dom_____ CoD_____					
	Int_____ Sup_____					
	X _____ Rep_____					

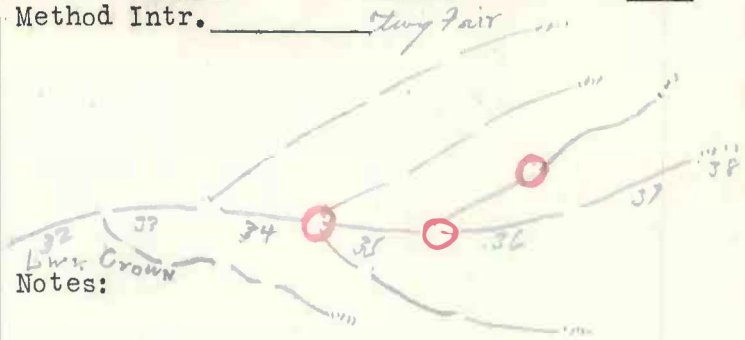
Twig Infestation Record

Twig No. 1 Date Inf.____ Scale Coll. 6-6
Method Intr. Cap Bask Twig Pair



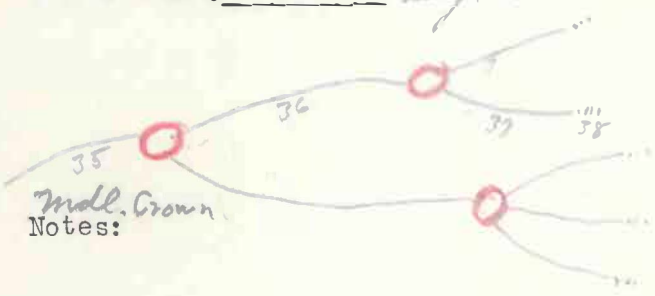
Notes:

Twig No. 4 Date Inf.____ Scale Coll.____
Method Intr._____ Twig Pair



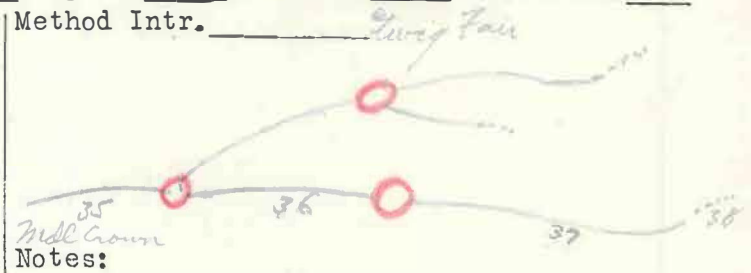
Notes:

Twig No. 2 Date Inf.____ Scale Coll.____
Method Intr._____ Twig Pair



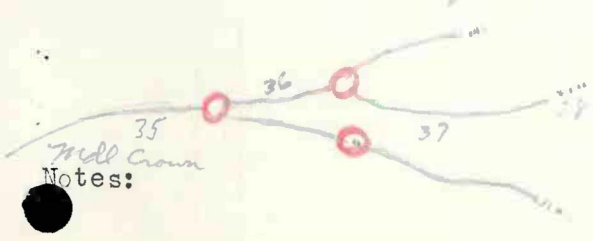
Notes:

Twig No. 5 Date Inf.____ Scale Coll.____
Method Intr._____ Twig Pair



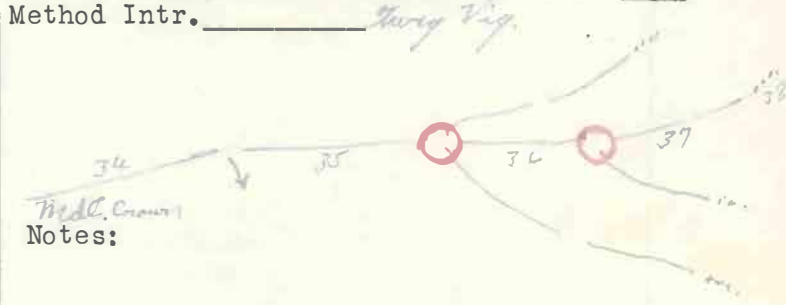
Notes:

Twig No. 3 Date Inf.____ Scale Coll.____
Method Intr._____ Twig Pair



Notes:

Twig No. 6 Date Inf.____ Scale Coll.____
Method Intr._____ Twig Pair

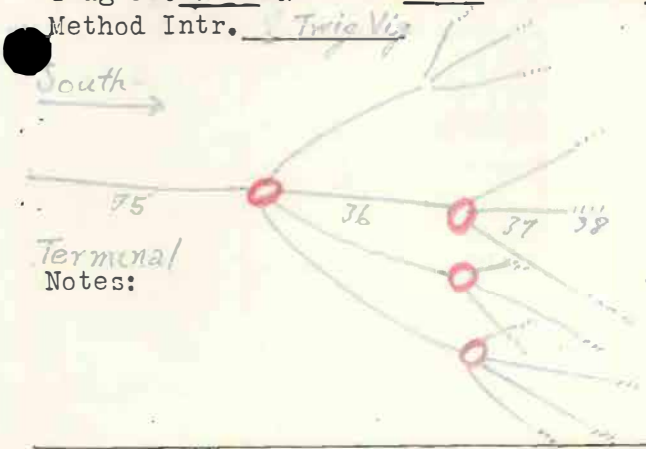


Notes:

Plot No. 1 Tree No. 1

Twig Infestation Record

Twig No. 7 Date Inf. ____ Scale Col. ____
Method Intr. Twig Vig

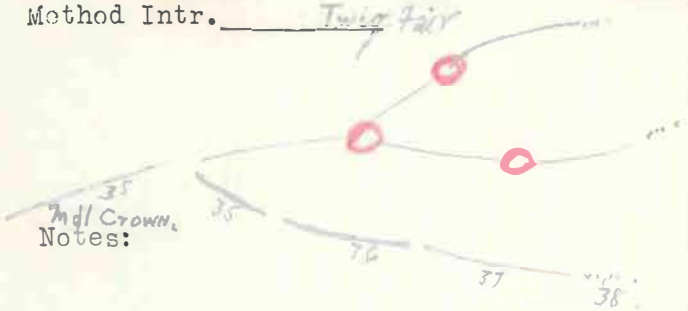


Notes:

Twig No. ____ Date Inf. ____ Scale Coll. ____
Method Intr. ____

Notes:

Twig No. 8 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair

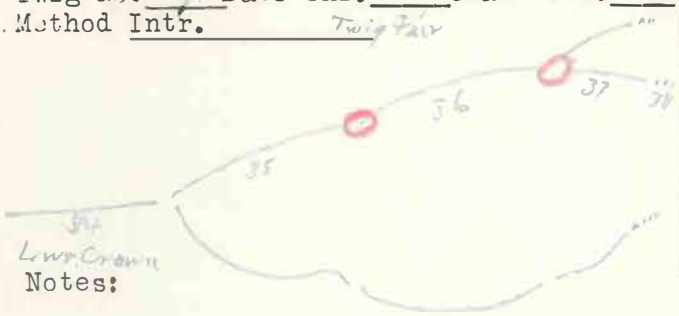


Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 9 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair



Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 10 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair

Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Plot No. 1

Tree No. I

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

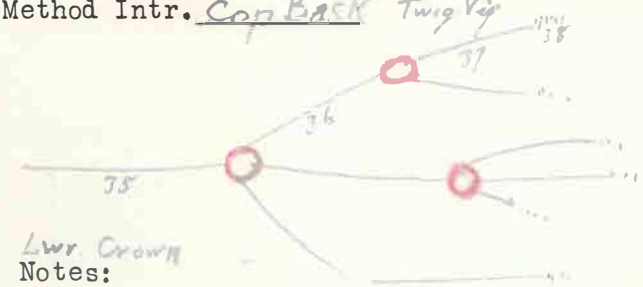
PRESCOTT NATIONAL FOREST

AREA Wolf Creek

Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
5/4/38	Dom ____ CoD ____ Int ____ Sup ____ X 1 Rep ____	Full	6.2	18	None	

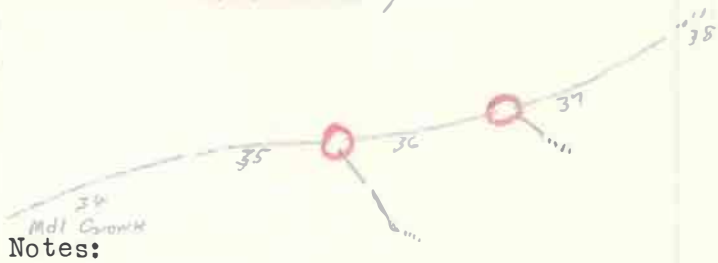
Twig Infestation Record

Twig No. 1 Date Inf. 5-21-37 Scale Coll. L.C.
Method Intr. Cop Back Twig Vig



Notes:

Twig No. 4 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair

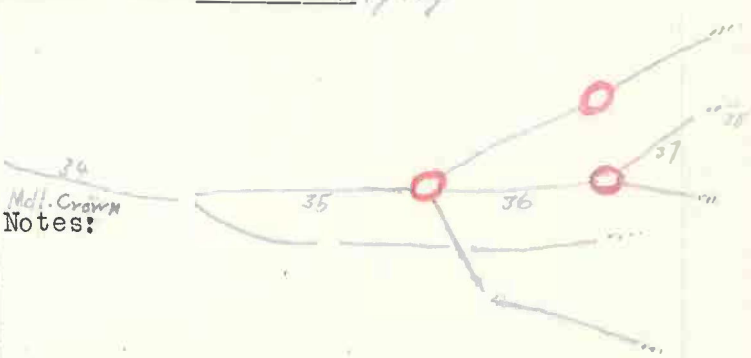


Notes:

Twig No. 2 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Weak

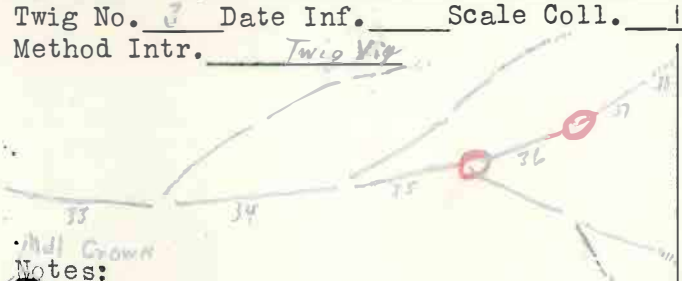
Notes:

Twig No. 5 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Vig



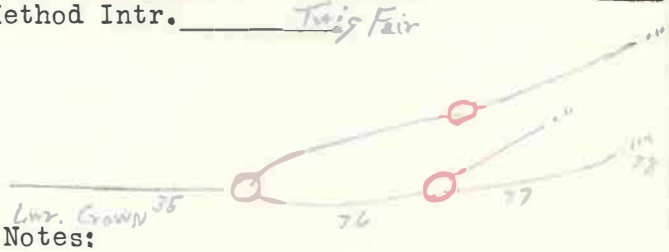
Notes:

Twig No. 3 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Vig



Notes:

Twig No. 6 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair

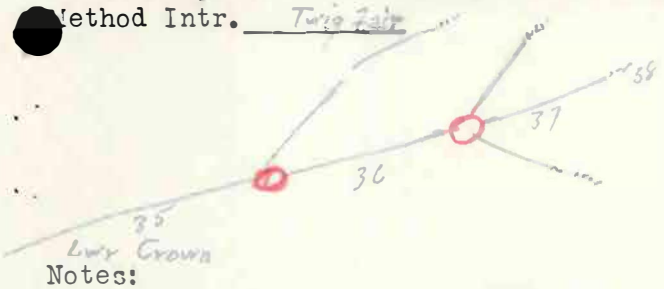


Notes:

Plot No. 1 Tree No. 5

Twig Infestation Record

Twig No. 7 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair

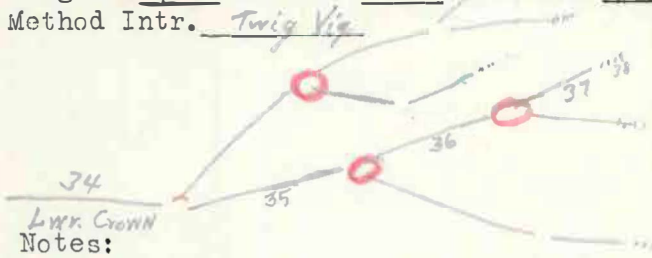


Notes:

Twig No. ____ Date Inf. ____ Scale Coll. ____
Method Intr. ____

Notes:

Twig No. 8 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair

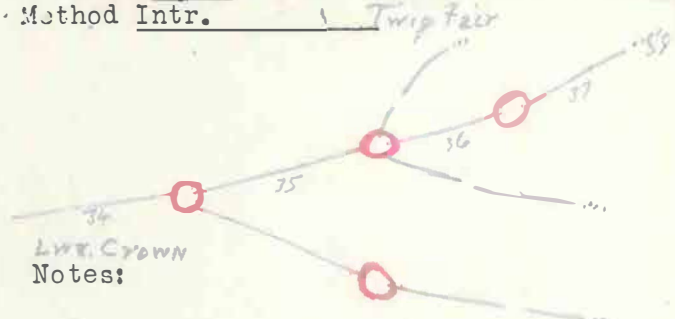


Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 9 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair

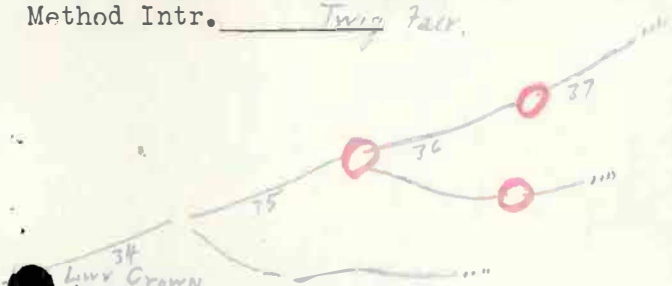


Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 10 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair



Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Plot No. 1 Tree No. 5

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

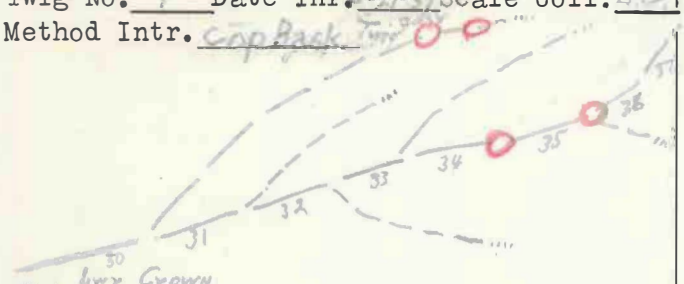
PRESCOTT NATIONAL FOREST

AREA Wolf Creek

Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
5/4/38	Dom ____ CoD ____ Int ✓ Sup ____ X ____ Rep ____	Full	4.1	18	None	

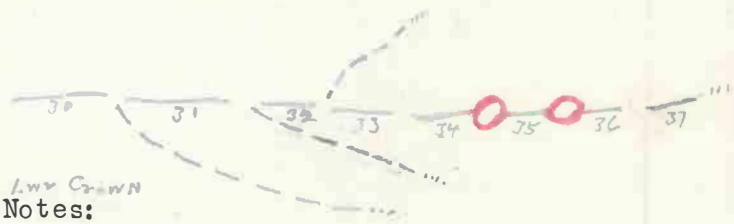
Twig Infestation Record

Twig No. 1 Date Inf. 5-21-38 Scale Coll. ____
Method Intr. Cop Back Twig



Notes:

Twig No. 4 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Weak

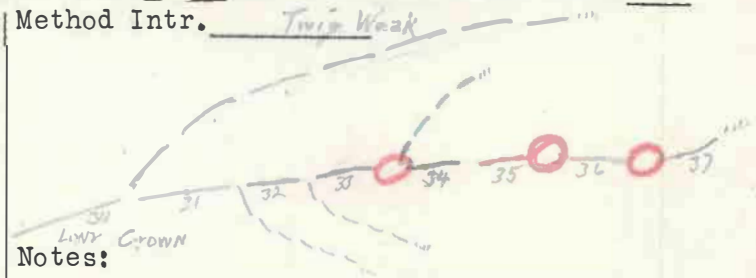


Notes:

Twig No. 2 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Weak

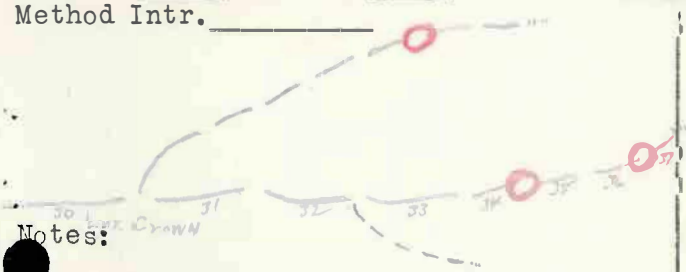
Notes:

Twig No. 5 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Weak



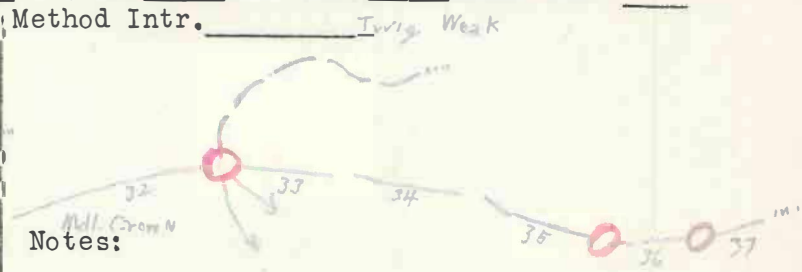
Notes:

Twig No. 3 Date Inf. ____ Scale Coll. ____
Method Intr. ____



Notes:

Twig No. 6 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Weak



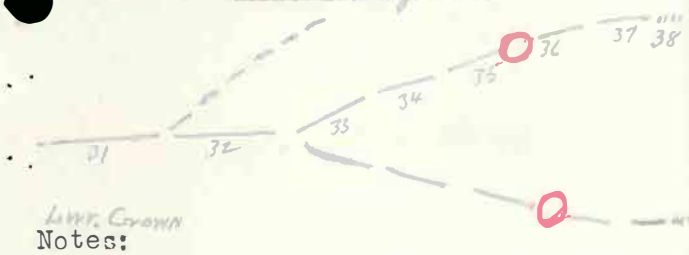
Notes:

Plot No. 1

Tree No. K

Twig Infestation Record

Twig No. 7 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair



Notes:

Twig No. ____ Date Inf. ____ Scale Coll. ____
Method Intr. ____

Notes:

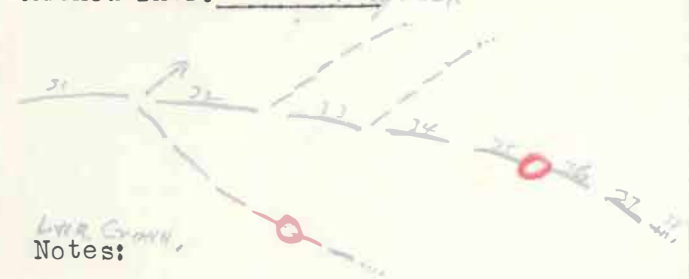
Twig No. 8 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair

Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 9 Date Inf. ____ Scale Col. ____
Method Intr. Twig Weak

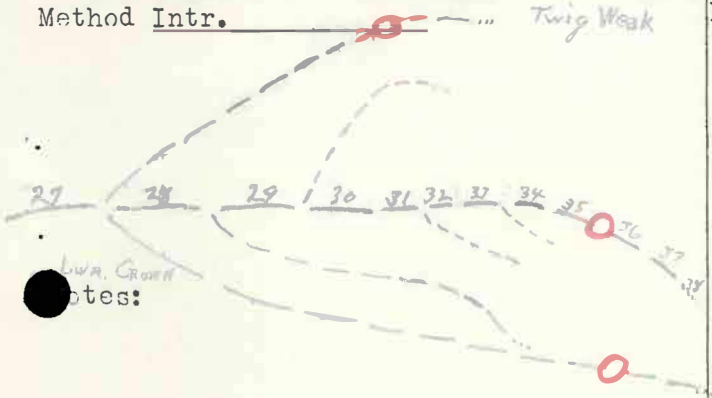


Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 10 Date Inf. ____ Scale Col. ____
Method Intr. Twig Weak



Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Plot No. 1

Tree No. K

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

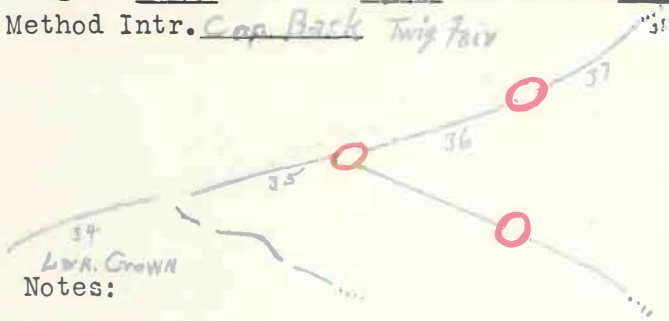
PRESCOTT NATIONAL FOREST

AREA Wolf Creek

Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
5/4/38	Dom____ CoD____ Int____ Sup____ X ✓ Rep____	average	2.0	11	None	

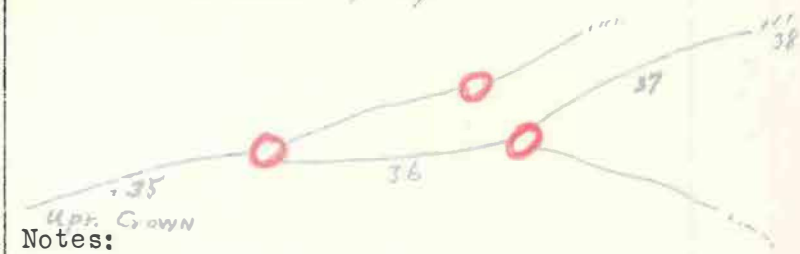
Twig Infestation Record

Twig No. 1 Date Inf. 4-21-38 Scale Coll. ____
Method Intr. Cap Back Twig Pair



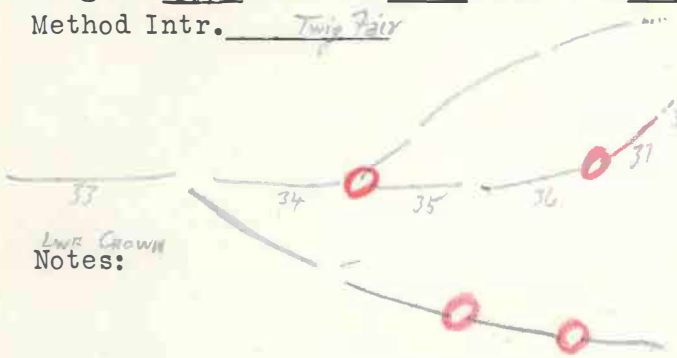
Notes:

Twig No. 4 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Vig



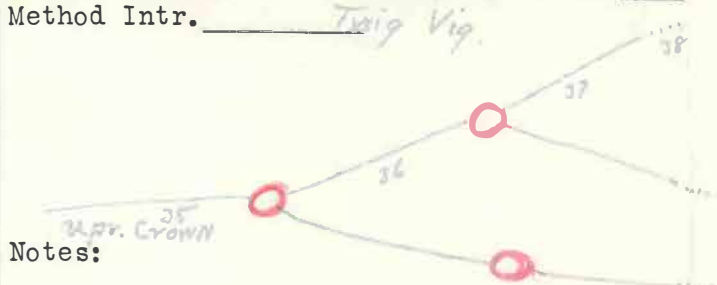
Notes:

Twig No. 2 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Pair



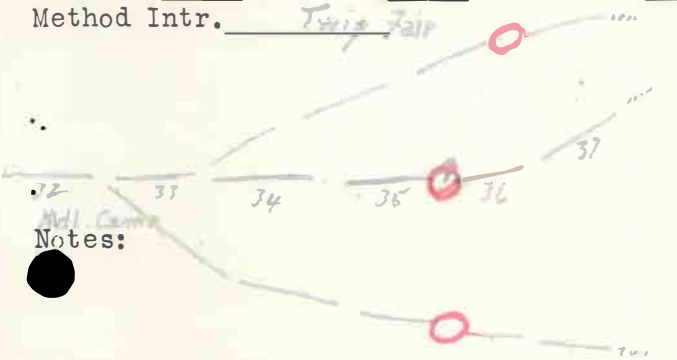
Notes:

Twig No. 5 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Vig.



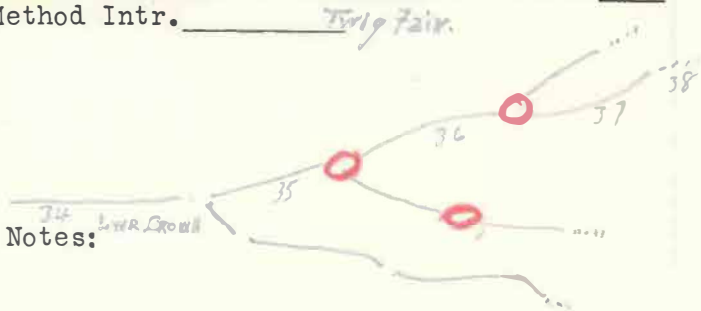
Notes:

Twig No. 3 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Pair



Notes:

Twig No. 6 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Pair.

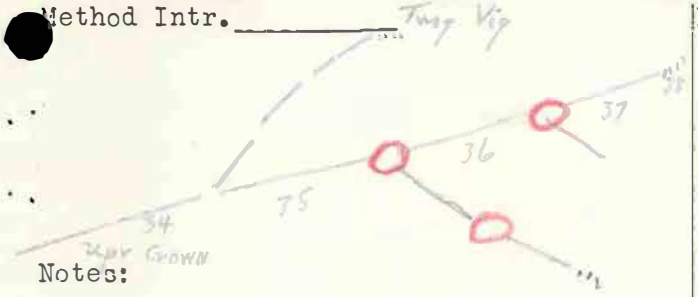


Notes:

Plot No. 1 Tree No. 1

Twig Infestation Record

Twig No. 7 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Vig

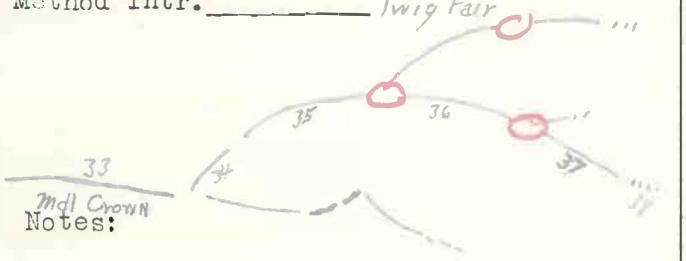


Notes:

Twig No. ____ Date Inf. ____ Scale Coll. ____
Method Intr. ____

Notes:

Twig No. 8 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Fair

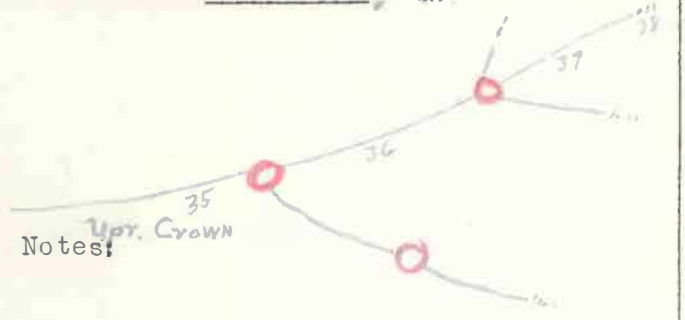


Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 9 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Fair

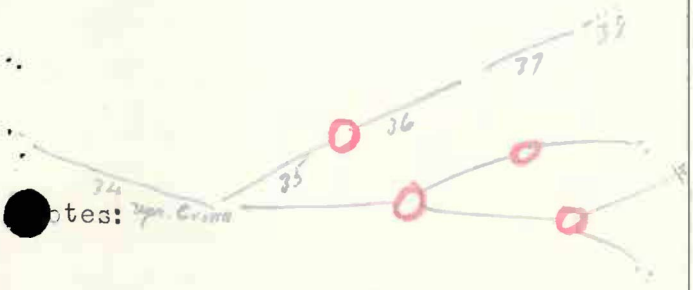


Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 10 Date Inf. ____ Scale Col. ____
Method Intr. ____ Twig Fair



Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Plot No. 1 Tree No. 4

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

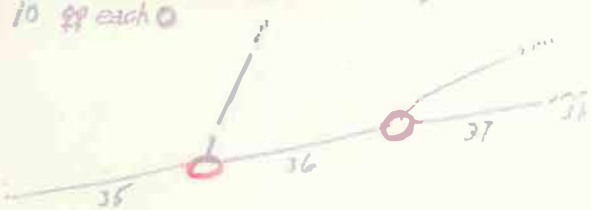
PRESCOTT NATIONAL FOREST

AREA Wolf Creek

Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
5/4/38	Dom V CoD ____ Int ____ Sup ____ X ____ Rep ____	Full	2.1	11	None	

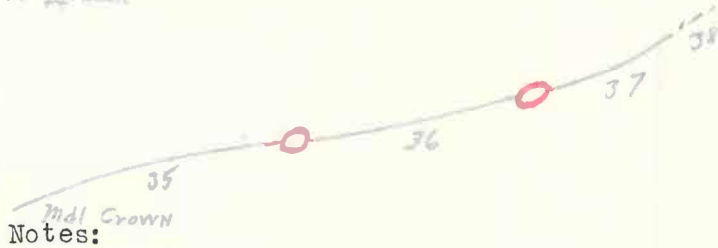
Twig Infestation Record

Twig No. 1 Date Inf. 6/17/38 Scale Coll. 8/8
Method Intr. Brush Twig Fair
10 ♀♀ each ○



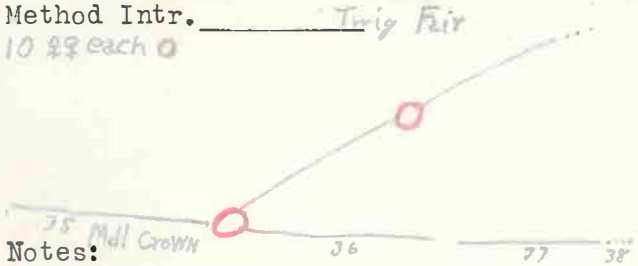
Notes:

Twig No. 4 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Fair
10 ♀♀ each



Notes:

Twig No. 2 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Fair
10 ♀♀ each ○

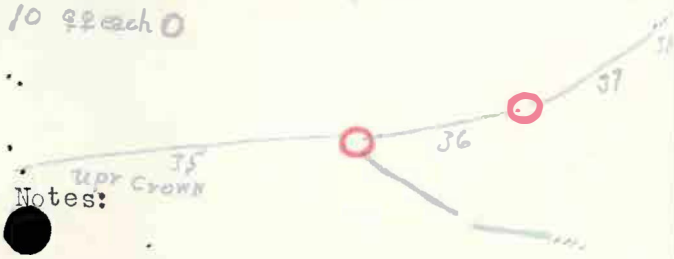


Notes:

Twig No. 5 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Fair
10 ♀♀ each ○

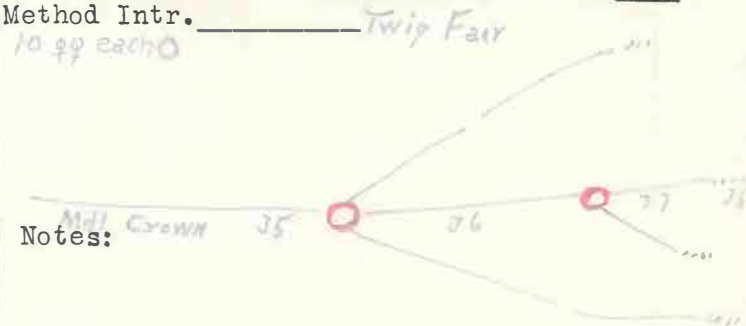
Notes:

Twig No. 3 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Fair
10 ♀♀ each ○



Notes:

Twig No. 6 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Fair
10 ♀♀ each ○



Notes:

Plot No. 1

Tree No. M

Twig Infestation Record

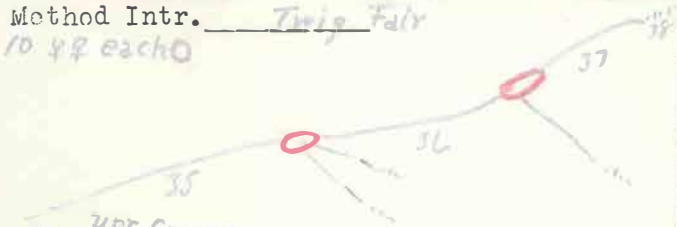
Twig No. 7 Date Inf. ____ Scale Col. ___
Method Intr. Twig Fair
10 ♀♀ each ○

Notes:

Twig No. ____ Date Inf. ____ Scale Coll. ____
Method Intr. ____

Notes:

Twig No. 8 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair
10 ♀♀ each ○



Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 9 Date Inf. ____ Scale Col. ____
Method Intr. Twig Fair
10 ♀♀ each ○

Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Twig No. 10 Date Inf. ____ Scale Col. ____
Method Intr. Twig Vig
10 ♀♀ each ○

Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____

Notes:

Plot No. 1

Tree No. M

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

PRESCOTT NATIONAL FOREST

AREA Wolf Creek

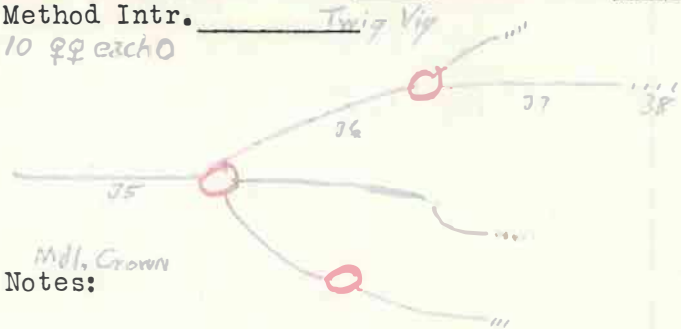
Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
5/4/38	Dom____ CoD____ Int____ Sup____ X ____ Rep____	Average	9	6	Tip Moth	

Twig Infestation Record

Twig No. 1 Date Inf. 6-[illegible] Scale Coll. B.B.
Method Intr. Brush Twig Fair
10 ♀♀ each ○

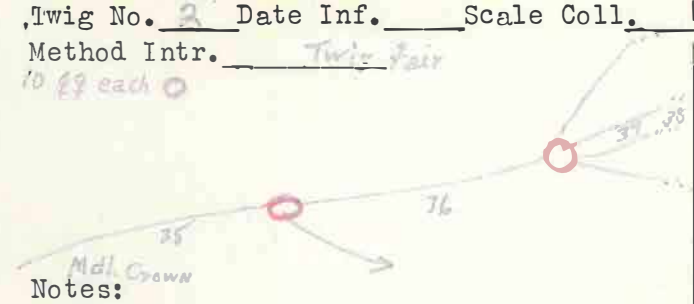
Notes:

Twig No. 4 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Vig
10 ♀♀ each ○



Notes:

Twig No. 2 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair
10 ♀♀ each ○

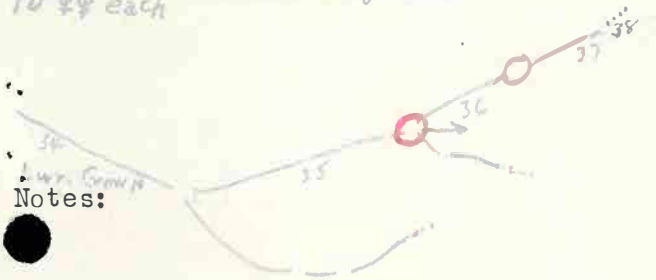


Notes:

Twig No. 5 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair
10 ♀♀ each ○

Notes:

Twig No. 3 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Weak
10 ♀♀ each



Notes:

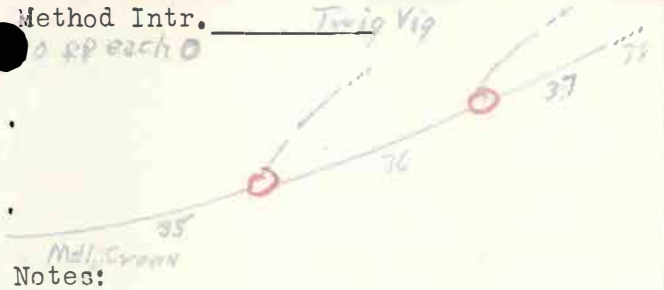
Twig No. 6 Date Inf. ____ Scale Coll. ____
Method Intr. ____ Twig Fair
10 ♀♀ each ○

Notes:

Plot No. 1 Tree No. N

Twig Infestation Record

Twig No. 7 Date Inf. _____ Scale Col. ___
Method Intr. _____ Twig Vig
0 ♀♀ each 0

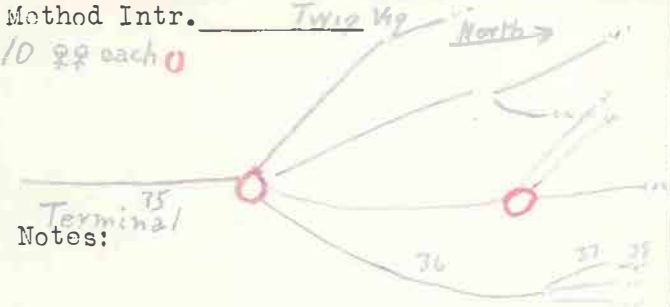


Notes:

Twig No. ____ Date Inf. ____ Scale Coll. ____
Method Intr. _____

Notes:

Twig No. 8 Date Inf. _____ Scale Col. ____
Method Intr. _____ Twig Vig
10 ♀♀ each 0

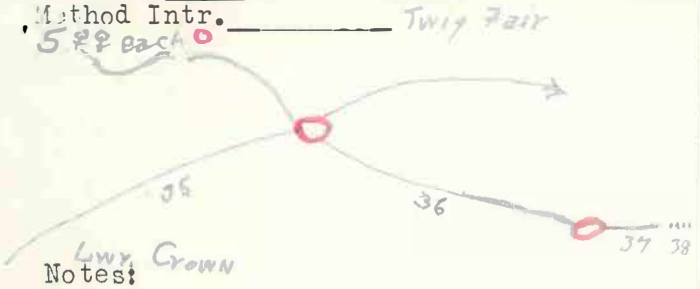


Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. _____

Notes:

Twig No. 9 Date Inf. _____ Scale Col. ____
Method Intr. _____ Twig Vig
5 ♀♀ each 0

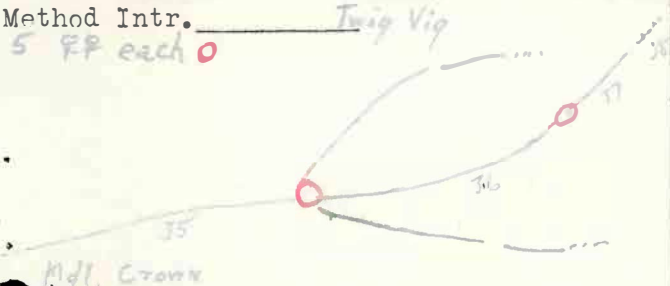


Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. _____

Notes:

Twig No. 10 Date Inf. _____ Scale Col. ____
Method Intr. _____ Twig Vig
5 ♀♀ each 0



Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. _____

Notes:

Plot No. 1 Tree No. N

MATSUCOCCUS INFESTATION STUDIES

TREE DATA SHEET

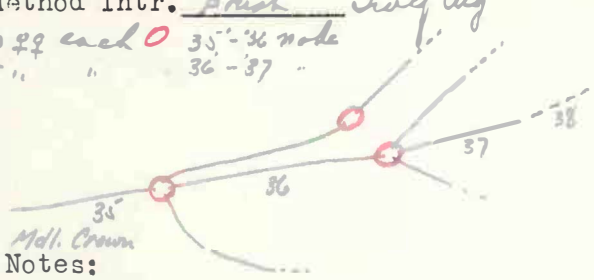
PRESCOTT NATIONAL FOREST

AREA Wolf Creek

Date of Reading	Crown Class	Crown Density	D. B. H.	Approx. Height	Insect Injury	Miscellaneous
5/4/38	Dom ✓ CoD ____ Int ____ Sup ____ X ____ Rep ____	Full	1.9	9	None	

Twig Infestation Record

Twig No. 1 Date Inf. 4-21-37 Scale Coll. B.B.
Method Intr. Brush Twig Veg
10 qq each 0 35-36 node
5 " " 36-37 "

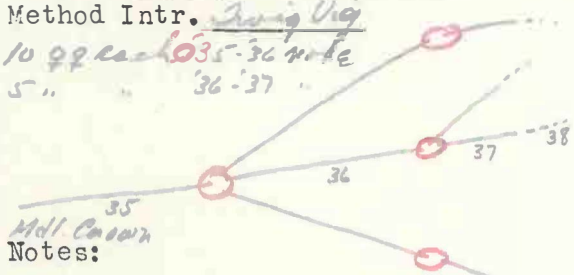


Notes:

Twig No. 4 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Veg
10 qq each 0 35-36 node
5 " " 36-37 "

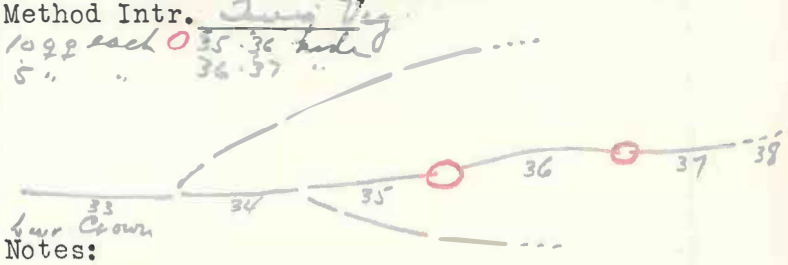
Notes:

Twig No. 2 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Veg
10 qq each 0 35-36 node
5 " " 36-37 "



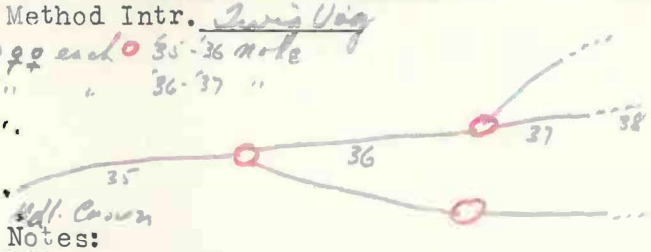
Notes:

Twig No. 5 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Veg
10 qq each 0 35-36 node
5 " " 36-37 "



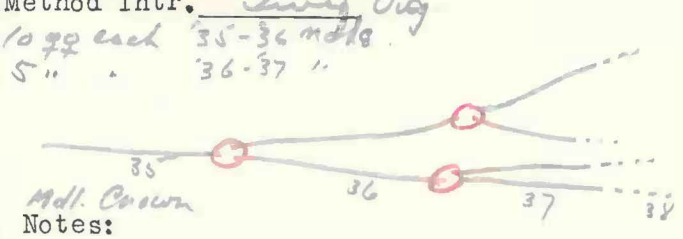
Notes:

Twig No. 3 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Veg
10 qq each 0 35-36 node
5 " " 36-37 "



Notes:

Twig No. 6 Date Inf. ____ Scale Coll. ____
Method Intr. Twig Veg
10 qq each 35-36 node
5 " " 36-37 "



Notes:

Plot No. 1 Tree No. 0

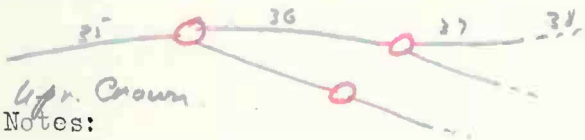
Twig Infestation Record

Twig No. 7 Date Inf. ____ Scale Col. ____
Method Intr. Twig Wig
10 ± each 0 35-36 node
5 " " 36-37 "

Lwr. Crown
Notes:

Twig No. ____ Date Inf. ____ Scale Coll. ____
Method Intr. ____
Notes:

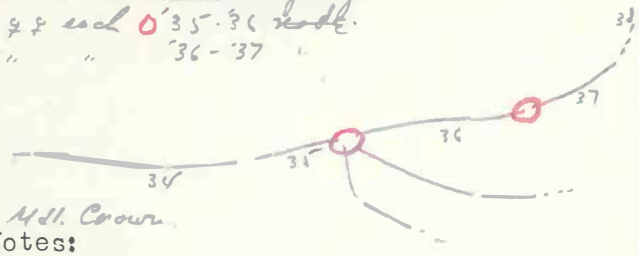
Twig No. 8 Date Inf. ____ Scale Col. ____
Method Intr. Twig Wig
10 ± each 0 35-36 node
5 " " 36-37 "



Upr. Crown
Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____
Notes:

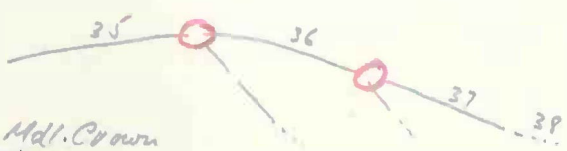
Twig No. 9 Date Inf. ____ Scale Col. ____
Method Intr. Twig Wig
10 ± each 0 35-36 node
5 " " 36-37 "



Mdl. Crown
Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____
Notes:

Twig No. 10 Date Inf. ____ Scale Col. ____
Method Intr. Twig Wig
10 ± each 0 35-36 node
5 " " 36-37 "



Mdl. Crown
Notes:

Twig No. ____ Date Inf. ____ Scale Col. ____
Method Intr. ____
Notes:

Plot No. 1 Tree No. 0